Service Manual

PIONEER®
The Art of Entertainment

ORDER NO.
RRV1965

AUDIO/VIDEO MULTI-CHANNEL RECEIVER

VSX-D507S
VSX-D457

● Refer to the service manual RRV1911 for VSX-D507S/KUXJI.

THIS MANUAL IS APPLICABLE TO THE FOLLOWING MODEL(S) AND TYPE(S).

Type	Model		Power Requirement	The voltage can be converted by the following method.
	VSX-D507S	VSX-D457		
SDXJI	○	○	AC110V/120–127V/220V/240V	With the voltage selector
SDXJI/NC	○	—	AC110V/120–127V/220V/240V	With the voltage selector

CONTENTS

1. CONTRAST OF MISCELLANEOUS PARTS 2
2. SCHEMATIC DIAGRAM 6

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1. CONTRAST OF MISCELLANEOUS PARTS

NOTES :
- *Parts marked by " NSP " are generally unavailable because they are not in our Master Spare Parts List.*
- *The ⚠ mark found on some component parts indicates the importance of the safety factor of the part. Therefore, when replacing, be sure to use parts of identical designation.*
- *Reference Nos. indicate the pages and Nos. in the service manual for the base model.*
- *When ordering resistors, first convert resistance values into code form as shown in the following examples.*

Ex. 1 When there are 2 effective digits (any digit apart from 0), such as 560 ohm and 47k ohm (tolerance is shown by J = 5%, and K = 10%).

560 Ω → 56 × 10 [1] → 561 ..... RD1/4PU 5 6 1 J
47k Ω → 47 × 10 [3] → 473 ..... RD1/4PU 4 7 3 J
0.5 Ω → R50 ..... RN2H R 5 0 K
1 Ω → 1R0 ..... RS1P 1 R 0 K

Ex. 2 When there are 3 effective digits (such as in high precision metal film resistors).

5.62k Ω → 562 × 10 [1] → 5621 ..... RN1/4PC 5 6 2 1 F

■ CONTRAST OF VSX-D507S/ SDXJI, SDXJI/NC and VSX-D457/SDXJI

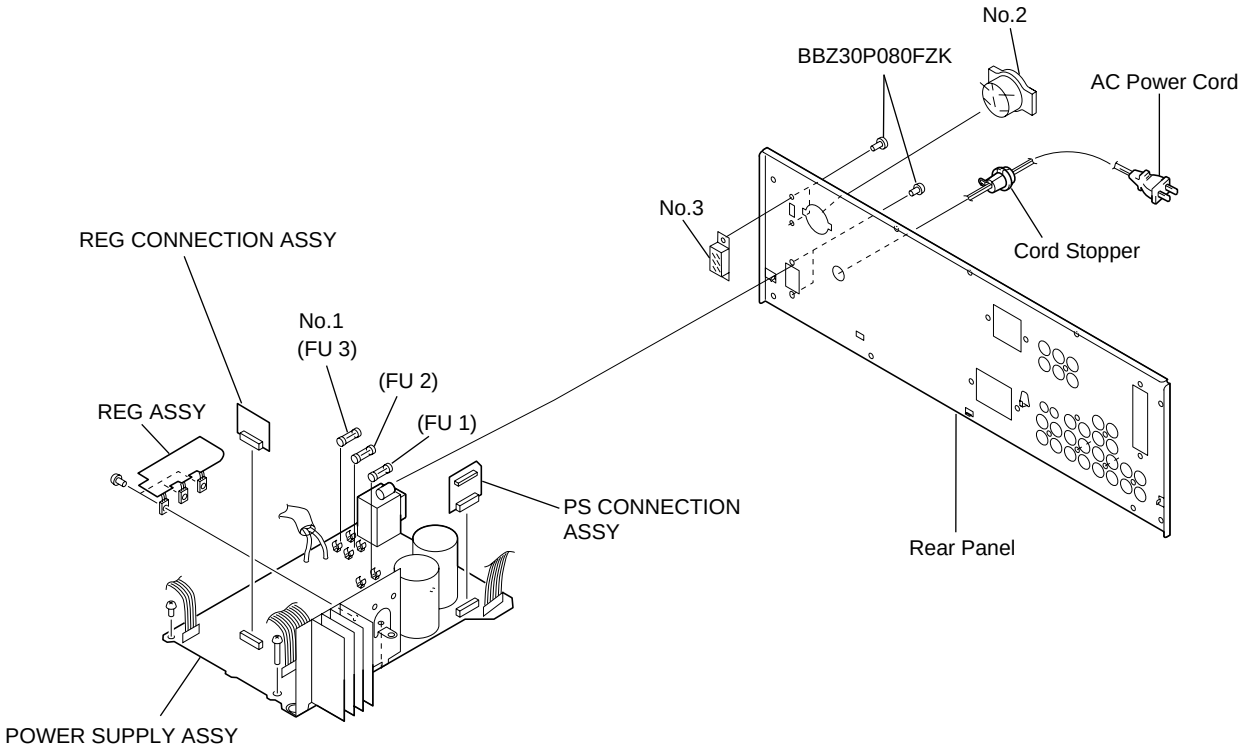
VSX-D507S/SDXJI, SDXJI/NC, VSX-D457/SDXJI and VSX-D507S/KUXJI are constructed the same except for the following:

Ref. No.	Mark	Symbol and Description	Part No.				Remarks
			VSX-D507S /KUXJI	VSX-D507S /SDXJI	VSX-D507S /SDXJI/NC	VSX-D457 /SDXJI	
		ASSEMBLIES					
	NSP	MOTHER ASSY	AWK7432	AWK7432	AWK7432	AWK7429	
P5-1		├─ INPUT ASSY	AWX7102	AWX7102	AWX7102	AWX7091	
P6-1	NSP	└─ HP & FAV ASSY	AWX7103	AWX7103	AWX7103	AWX7094	
	NSP	FRONT & PS ASSY	AWK7433	AWK7434	AWK7434	AWK7431	
P5-6		├─ POWER SUPPLY ASSY	AWX7096	AWX7101	AWX7101	AWX7101	
P5-7		├─ VIDEO ASSY	AWX7105	AWX7105	AWX7105	AWX7098	
P6-2		└─ FL & UCOM ASSY	AWX7104	AWX7168	AWX7168	AWX7167	
		PACKING					
P3-3		Operating Instructions (English)	ARB7134	Not used	Not used	Not used	
		Operating Instructions (English/Spanish/Chinese)	Not used	ARE7166	ARE7166	ARE7164	
P3-4	NSP	Warranty Card	ARY1051	Not used	Not used	Not used	
P3-5		Remote Control Unit (CU-VSX126)	Not used	Not used	Not used	AXD7156	
P3-5		Remote Control Unit (CU-VSX127)	AXD7158	AXD7158	AXD7158	Not used	
P3-6		Battery Cover	Not used	Not used	Not used	RZN1156	
P3-7	NSP	Dry Cell Battery (LR6,AA)	AEX1007	AEX1007	VEM1012	Not used	
P3-7	NSP	Dry Cell Battery (R6P,AA)	Not used	Not used	Not used	VEM-013	
P3-11		Packing Case	AHD7554	AHD7555	AHD7599	AHD7553	
P3-13		Sub Instructions (English)	ARH7033	ARH7033	ARH7033	Not used	
		EXTERIOR					
P5-11	⚠	Power Transformer (T1:AC120V)	ATS7207	Not used	Not used	Not used	
P5-11	⚠	Power Transformer (AC110V/120-127V/220V/240V)	Not used	ATS7209	ATS7209	ATS7209	
P5-12	⚠	Fuse (FU2: 6.3A)	VEK1026	Not used	Not used	Not used	
	⚠	Fuse (FU2,FU3: 3.15A)	Not used	AEK7055	AEK7055	AEK7055	No.1
P5-13	⚠	Fuse (FU1: 10A)	REK1087	REK1132	REK1132	REK1132	
P5-14	⚠	AC Power Cord	PDG1015	ADG1157	ADG1157	ADG1157	
P5-19		Rear Panel	ANC7624	ANC7625	ANC7667	ANC7623	
P5-25		Insulator	PNW2766	PNW2766	PNW2766	AMR7198	
P5-32	⚠	Cord Stopper	CM-22C	CM-22B	CM-22B	CM-22B	
P5-40		Spacer	AEB7118	AEB7124	AEB7124	AEB7124	
P6-16		Sub Panel	AAP7041	AAP7041	AAP7041	AAP7038	
P6-17		Front Panel	AMB7486	AMB7486	AMB7486	AMB7485	
	⚠	Voltage Selector (S1)	Not used	AKX-507	AKX-507	AKX-507	No.2
	⚠	Voltage Selector (S2)	Not used	AKX1004	AKX1004	AKX1004	No.3

NOTE: • The numbers in the remarks correspond to the numbers on the exploded diagram, Refer to "EXPLODED VIEWS".
• For ASSEMBLES, Refer to "■ CONTRAST OF PCB ASSEMBLIES" and "2.SCHEMATIC DIAGRAM".

■ EXPLODED VIEWS

● EXTERIOR SECTION



■ CONTRAST OF PCB ASSEMBLIES

E INPUT ASSY

AWX7091 and AWX7102 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7102	AWX7091	
	Q353	KRA103M	Not used	
	Q354	KRC101M	Not used	
	D351	1SS254	Not used	
	RY351	ASR7001	Not used	
	CN108 5P PLUG	KM250MA5	Not used	

C HP & FAV ASSY

AWX7094 and AWX7103 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7103	AWX7094	
	C552,C553	CGCYX104M16	Not used	
	R557,R558	RD1/4PU331J	Not used	
	R559,R560	RD1/4PU224J	Not used	
	R561	RD1/4PU750J	Not used	
	CN552 5P PLUG	KM250MA5	Not used	
	JA554 PINJACK	AKB7098	Not used	

G F FL & UCOM ASSY

AWX7168, AWX7167 and AWX7104 are constructed the same except for the following:

Mark	Symbol and Description	Part No.			Remarks
		AWX7104	AWX7168	AWX7167	
	D621	1SS254	1SS254	Not used	
	D622	Not used	1SS254	Not used	
	D623	Not used	Not used	1SS254	
	S621	ASG1034	ASG1034	Not used	
	R655	Not used	Not used	RD1/4PU103J	

I F POWER SUPPLY ASSY

AWX7101 and AWX7096 are constructed the same except for the following:

Mark	Symbol and Description	Part No.		Remarks
		AWX7096	AWX7101	
	C702	CEAT471M16	CEAT102M16	
	C715 , C716	ACH7018 (8200µF/71V)	ACH7019 (8200µF/80V)	
	R703	RD1/2PM270J	RD1/2PM330J	
	R704 (2.2MΩ 1/2W)	RCN1080	Not used	
	H705, H706 FUSE CLIP	Not used	AKR1004	
⚠	T701	ATT1223	ATT1193	
	KN704 GROUND PLATE	VNF1084	Not used	
NSP	706 3P TERMINAL	Not used	AKC-081	

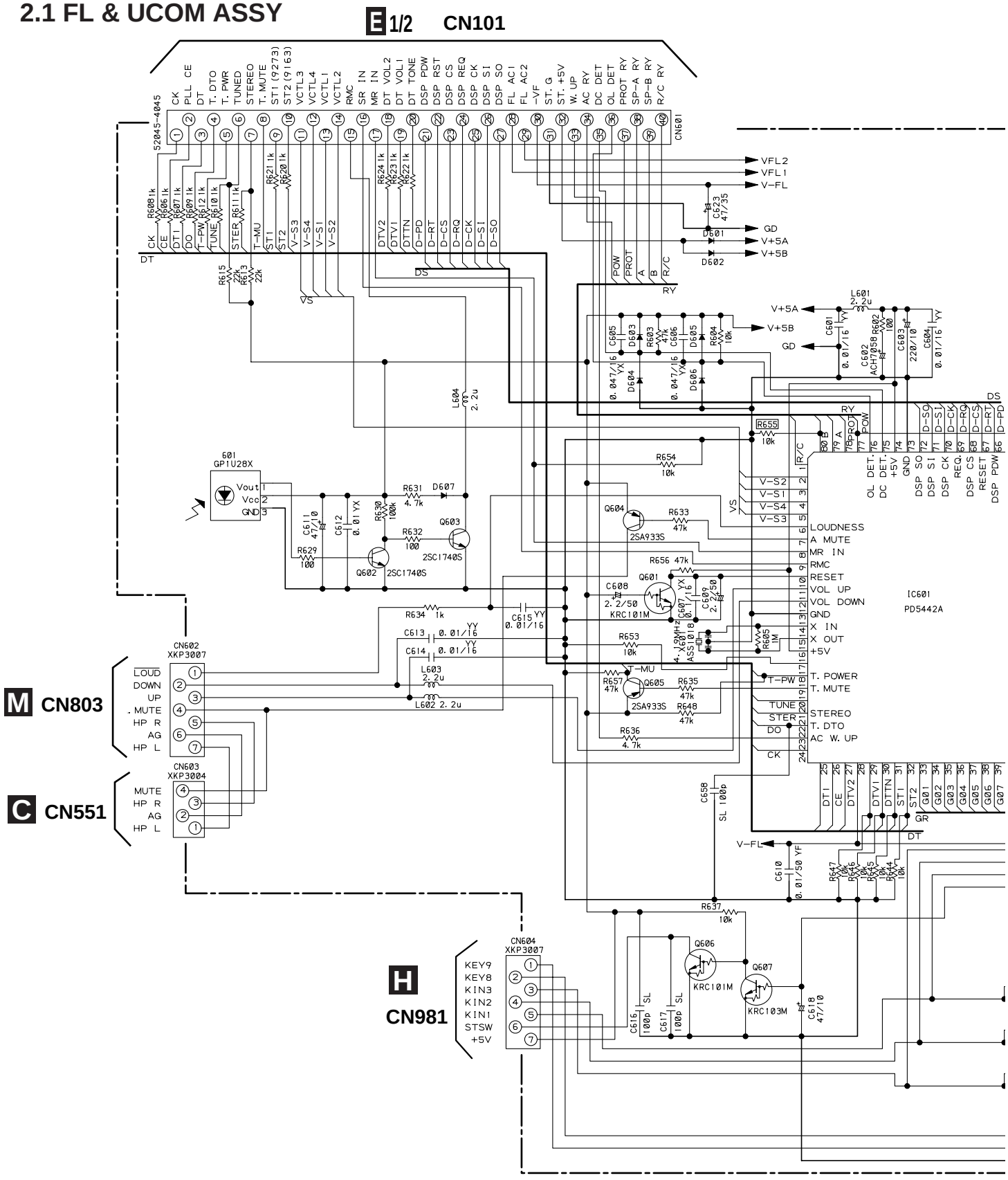
LF VIDEO ASSY

AWX7098 and AWX7105 are constructed the same except for the following:

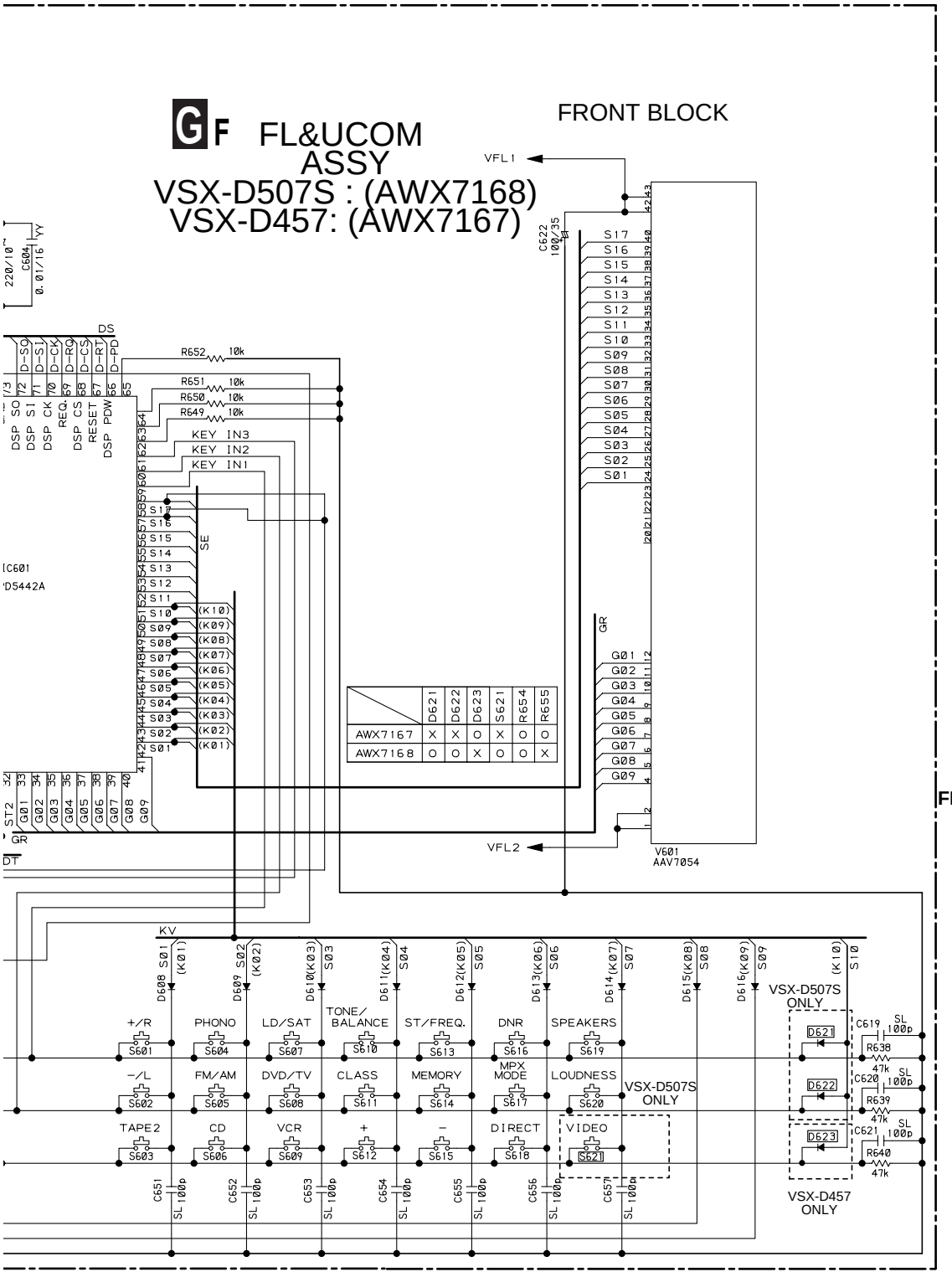
Mark	Symbol and Description	Part No.		Remarks
		AWX7105	AWX7098	
	D931	1SS254	Not used	
	D932	Not used	1SS254	
	JA932 4P JACK	RKN1004	Not used	

2. SCHEMATIC DIAGRAM

2.1 FL & UCOM ASSY



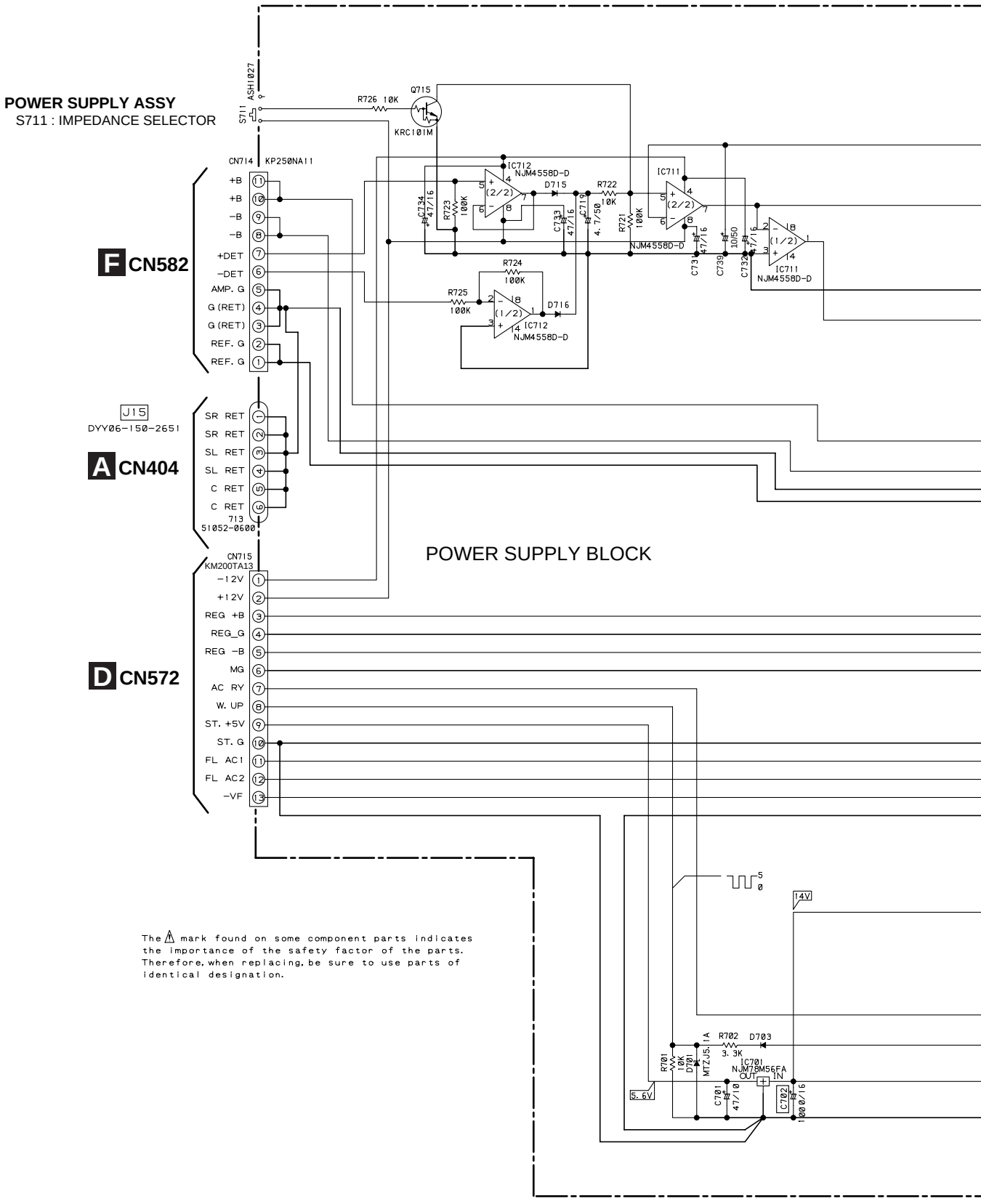
NOTE: When ordering service parts, be sure to refer to “PARTS LIST of EXPLODED VIEWS” or “PCB PARTS LIST”.



FL&UCOM ASSY

- S601 : TONE/BALANCE +/R
- S602 : TONE/BALANCE –/L
- S603 : TAPE2 MONITOR
- S604 : PHONO
- S605 : FM/AM
- S606 : CD
- S607 : LD/SAT
- S608 : DVD/TV
- S609 : VCR/TAPE1
- S610 : TONE/BALANCE SELECT
- S611 : CLASS
- S612 : ST/FEQ. –
- S613 : ST/FEQ. TUNING SELECT
- S614 : MEMORY
- S615 : ST/FEQ. +
- S616 : DIGITAL NR(VSX-D507S) MUTING(VSX-D457)
- S617 : MPX MODE
- S618 : DIRECT
- S619 : SPEAKERS
- S620 : LOUDNESS
- S621 : VIDEO INPUT (VSX-D507S ONLY)

2.2 POWER SUPPLY ASSY



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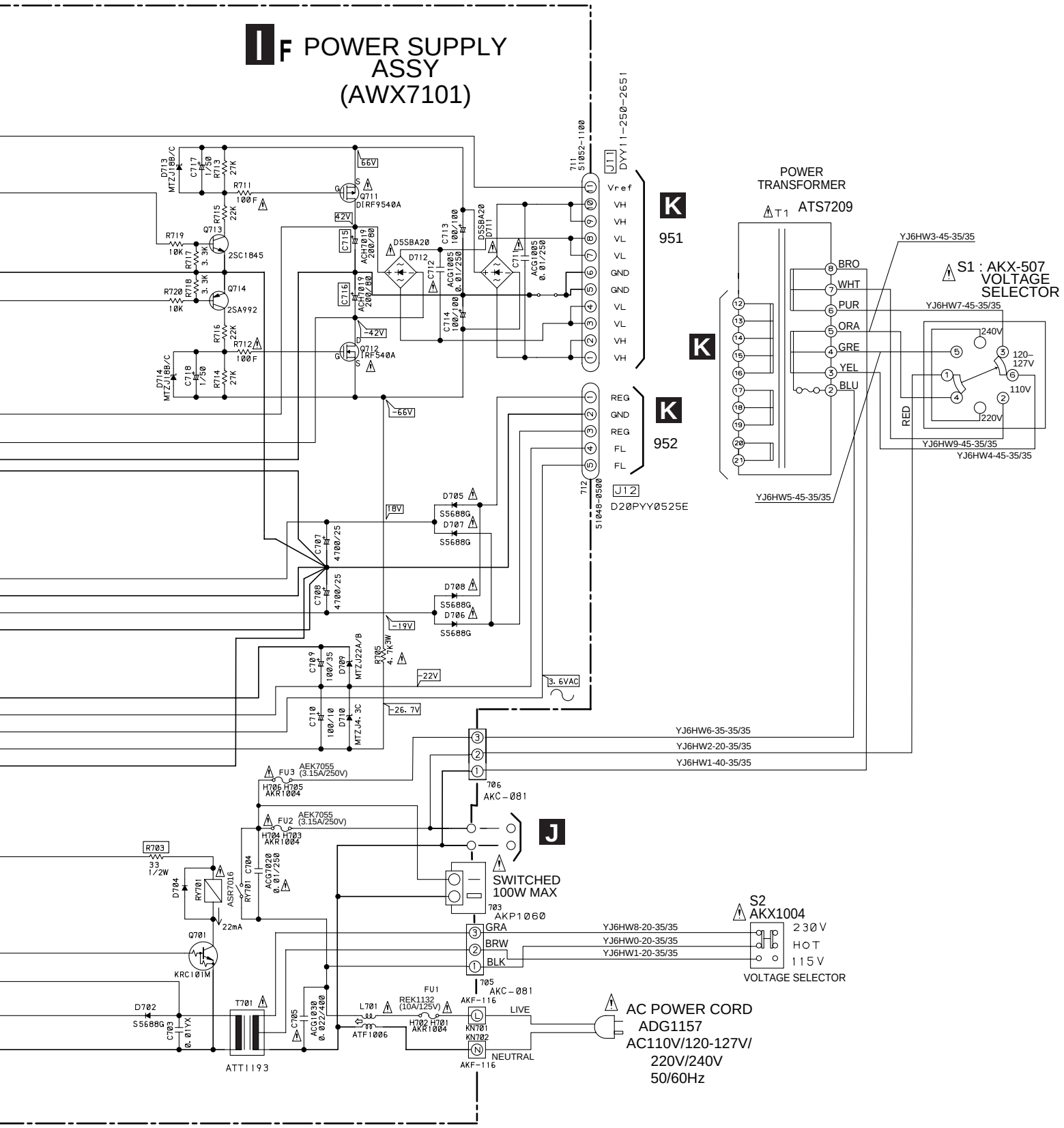

• NOTE FOR FUSE REPLACEMENT

CAUTION - FOR CONTINUED PROTECTION AGAINST RISK OF FIRE. REPLACE WITH SAME TYPE AND RATINGS ONLY.

2.3 VIDEO ASSY